

1 This listing of claims will replace all prior versions, and listings, of claims
2 in the application.

3
4 **Listing of Claims:**

5
6 Claim 1 (Currently amended): A storage device comprising:
7 a controller configured to receive jobs from a source;
8 a set of components that receive, complete, and pass on jobs; and
9 job flow analysis devices configured to the controller to track the number of
10 jobs received, completed, and passed on by each component, wherein the
11 controller compares the number of jobs received with [[the]] a sum of the number
12 of jobs completed and passed on by each component.

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14 Claim 2 (Currently amended): The storage device of claim 1 wherein
15 the controller is further configured to perform a corrective action on the [[RAID]]
16 storage device and request from the source the jobs when the number of jobs
17 received is greater than [[the]] a sum of a threshold amount plus the number of
18 jobs completed and passed on by one of the components.

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20 Claim 3 (Original): The storage device of claim 1 wherein the set of
21 components are arranged serially.

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23 Claim 4 (Currently amended): The [[RAID]] storage device of claim 1
24 wherein the job flow analysis devices are comprised of job logs to record jobs
25 received, completed, and passed on.

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2 Claim 5 (Currently amended): A method comprising:
3 determining a number of jobs received, completed, and passed on by a
4 process;
5 comparing the number of jobs received by the process and a sum of the
6 number of jobs completed and passed on by the process;
7 deciding whether the sum of a threshold amount and of the number of jobs
8 completed and passed on is greater than the number of jobs received; and
9 performing a corrective action when the sum of the threshold amount and
10 the number of jobs completed and passed on versus the number of jobs received is
11 not acceptable.

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13 Claim 6 (Original): The method of claim 5 wherein the comparing is
14 performed over a common time period during which the numbers of jobs are
15 received, completed, and passed on by the process.

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17 Claim 7 (Original): The method of claim 5 wherein the determining is
18 performed by a counter for the jobs received, a counter for the jobs completed, and
19 a counter for the jobs passed on.

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21 Claim 8 (Original): The method of claim 7 wherein the determining is
22 further comprised of tracking the jobs in job logs included in the counters.

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24 Claim 9 (Original): The method of claim 5 wherein the determining
25 comprises performing a bandwidth analysis at an input where the jobs are

1 received, at an output of where the jobs are completed, and at an output of where
2 the jobs are passed on.

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4 Claim 10 (Original): The method of claim 5 wherein the performing a
5 corrective action comprises requesting for jobs to be resent from a source.

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7 Claim 11 (Original): The method of claim 5 wherein the process is one of
8 a set of serial processes that receive, complete, and pass on jobs.

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10 Claim 12 (Original): The method of claim 5 further comprising
11 accounting for any conditions that affect job flow other than input and output to
12 the process and performing corrective action.

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14 Claim 13 (Original): A storage device comprising:
15 a series of processes configured to count jobs received, completed, and
16 passed on by each process;
17 a set of counters to track numbers of jobs received, completed, and passed
18 on by each process in the series of processes; and
19 a controller that compares from the counters the number of jobs received
20 versus the sum of the number of jobs completed and passed on by each process.

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22 Claim 14 (Original): The storage device of claim 13 wherein the set of
23 counters are comprised of job logs to record particular jobs received, completed,
24 and passed on at each counter.

1 Claim 15 (Original): The storage device of claim 13 wherein the jobs are
2 received from a device which communicates with the storage device.

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4 Claim 16 (Currently amended): The storage device of claim 13 wherein
5 the controller tracks conditions that affect job flow other than input and output to
6 the processes and performing corrective action.

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8 Claim 17 (Original): A system that comprises the storage device of claim
9 13.

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11 Claim 18 (Original): A processor-readable medium comprising processor-
12 executable instructions for analyzing job flow in a process, the processor-
13 executable instructions comprising instructions for:

14 tracking a number of jobs received, jobs completed, and jobs passed on by
15 the process;

16 comparing the number of jobs received by the process with the number of
17 jobs completed and passed on the process; and

18 determining a discrepancy whenever the number of jobs received by the
19 process exceeds the number of jobs completed and passed on the process.

20
21 Claim 19 (Currently amended): The processor-readable medium of claim
22 [[27]] 18 wherein the tracking is performed for an expected amount of time for
23 which the jobs are to be completed.

1 Claim 20 (Currently amended): The processor-readable medium of claim
2 ~~[[27]]~~ 18 wherein the process is part of a set of serial processes.

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4 Claim 21 (Currently amended): The processor-readable medium of claim
5 ~~[[27]]~~ 18 wherein the instructions further comprise performing a corrective action
6 when the process when a discrepancy is determined.

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8 Claim 22 (Currently amended): The processor-readable medium of claim
9 ~~[[32]]~~ 21 further comprising requesting for a complete set of jobs to be received
10 when performing the corrective action on the process.

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12 Claim 23 (Currently amended): The processor-readable medium of claim
13 ~~[[32]]~~ 21 further comprising requesting for jobs awaiting to be processed when the
14 corrective action is performed.

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16 Claim 24 (Currently amended): A storage device comprising:
17 means for counting ~~[[the]]~~ a number of jobs received, completed, and
18 passed on by processes in a controller of the storage device;
19 means for determining if ~~[[the]]~~ a number of jobs completed and passed on
20 is sufficient for ~~[[the]]~~ a number of jobs received by each process;
21 means for resetting the processes; and
22 means for requesting for the jobs to be resent to the processes.

1 Claim 25 (Currently amended): The storage device of claim [[35]]24
2 wherein the means for counting comprises a job log for jobs received, completed,
3 and passed on by each process.
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5 Claim 26 (Currently amended): The storage device of claim [[35]]24
6 wherein the means for counting is performed by bandwidth analysis for jobs
7 inputted to, and completed and passed on as output by each process.
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